United States Army Reserve Chemical, Biological, Radiological, Nuclear (CBRN) Response Operations

Purpose

To provide update information on The United States Army Reserve Roles, and Missions in CBRN Response Operations.

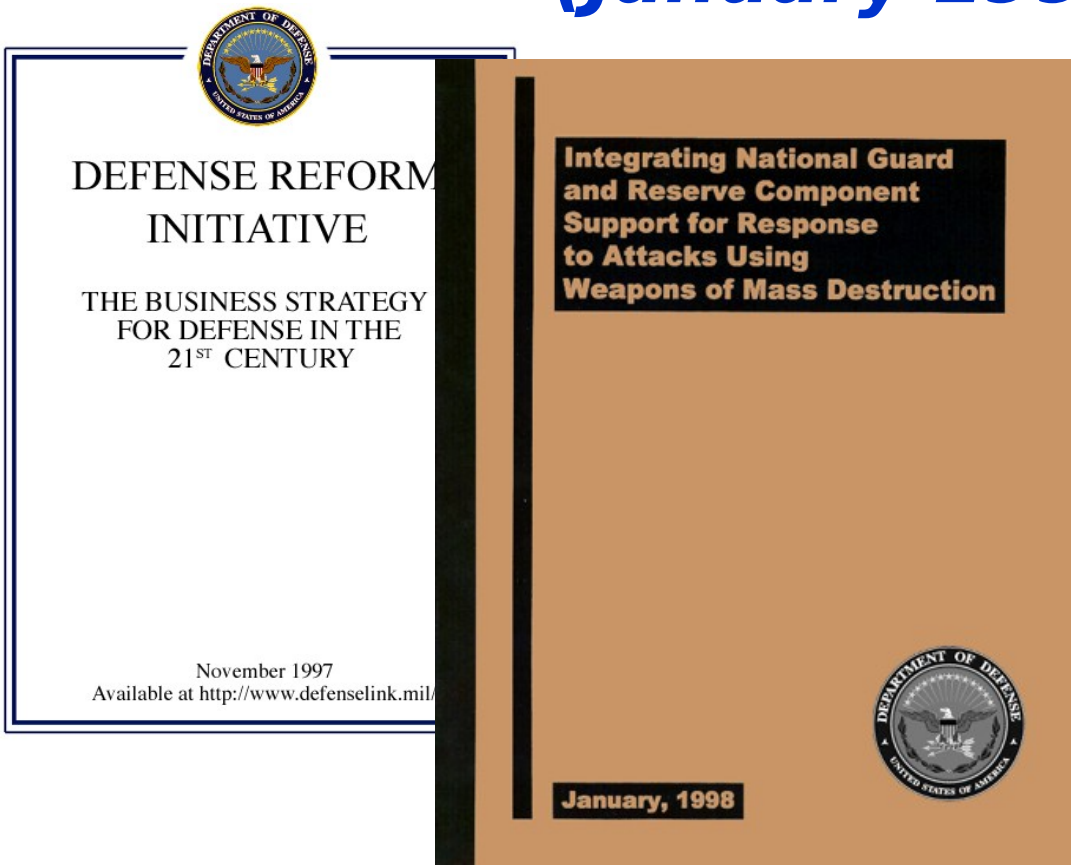
Outline

- **Background**
- **Mass Casualty Decontamination**
- **CBRN Reconnaissance**
- **Army Reserve CBRN/WMD Response Capabilities**
- **Army Reserve Training**
- **Issues**

Background

Defense Reform Initiative Directive Number 25

(January 1998)



- **Supports Interagency Response**
- **Requires decontamination (decon) training for Reserve Component (RC) Chemical Companies**
- **Requires NBC reconnaissance (recon) training for RC Chemical Companies**
- **Created Military Support Detachments**

://www.defenselink.mil.pubs/wmdresponse/

DA Guidance

“The Army chemical units have a mission to provide Nuclear, Biological, and Chemical (NBC) reconnaissance and decontamination in support of domestic emergencies involving weapons of mass destruction.”

Memo, DAMO-SSD
To FORSCOM DCS-OPS
18 October 2001

Department of Defense Instruction 2000.18

(4 DEC 2002)

"The DoD Components in the Continental United States (CONUS) have the responsibility, as specified in U.S. Law, to support and assist U.S. civil authorities, as directed, in consequence management activities for natural and man-made disasters to include Chemical, Biological, Radiological, Nuclear, and High-Yield Explosive (CBRNE)-related events on U.S. territory.

"Specific fire and/or HAZMAT core functions include… Atmospheric monitoring and detection…Extract casualties from a CBRNE environment…Decontaminate and treat [CBR] contaminated casualties."

Decontamination Mission

Tasking (FORSCOM message 241845Z JUN 02):

On Order deploy to conduct NBC personnel and casualty decontamination in support of the incident commander or Lead Federal Agency.

Images from Consequence Management 2000

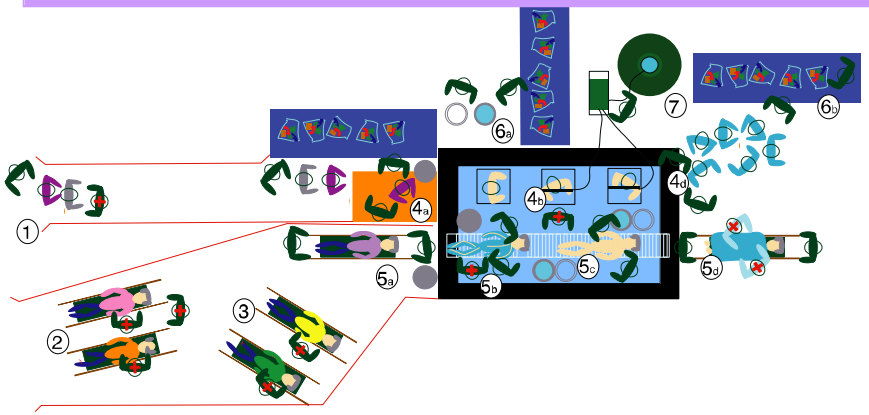
Smoke/Decon Company Missions

- **Wartime Mission:** Provide large area smoke and equipment decon support to divisions, units in the corps rear areas and COMMZ.

- **Additional mission - WMD:** Perform personnel and casualty decon to support domestic response.

- **Result:** Additional training days allows units to add casualty and civilian decon to their capabilities. These enhanced capabilities mean improved support to Combatant Commanders.

DRCD Doctrine
Concept of Operations



- Deploy to site
- Operate in support of incident commander
- Site Capability:
  - 60 ambulatory patients per hour
  - 30 non-ambulatory patients per hour
- “Final” decon prior to admission to hospital

DRCD Equipment List
Augmentation TDA Only

Domestic Response Casualty Decontamination System

DECON

Decontamination Equipment Compliment Major End Items			
QTY	**UI**	**TYPE**	**DESCRIPTION**
1	EA	NS	Mass Casualty Decon System
3	EA	NS	Aluminum Conveyor rollers
2	EA	NS	Shelters, rigid frame
1,500	EA	NS	Mesh onion bags, ½ bushel
3,000	EA	NS	Zip ties, medium 12”
500	EA	NS	Robes/overgarments
500	EA	NS	Towels, large
250	EA	NS	Blankets
3	EA	CDE	Improved Chemical Agent Monitor
1	EA	CDE	CAMSIM
6	EA	CDE	Battery, Chemical Agent Monitor
4	EA	CDE	Detector Kit, M256A1
1	EA	CDE	Radiac Meter, AR/PDR77
5	EA	CDE	Radiac Set, UDR13
1	EA	CDE	Radiac, VDR-2 Beta Gamma
2	EA	CDE	ACADA
1	EA	NS	Decon Support Equipment Set
NS	NON-STANDARD		
CDE	CHEMICAL DEFENSE EQUIPMENT		

Reconnaissance Mission

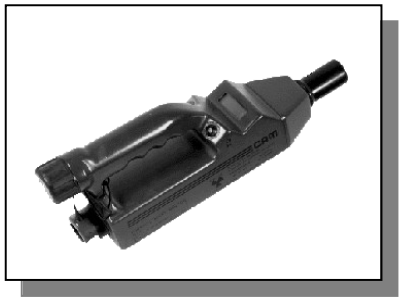
Tasking (FORSCOM message 241845Z JUN 02):

On Order deploy to provide NBC reconnaissance support to the incident commander or Lead Federal Agency to detect and identify CBRN contamination. Provide CBRN reconnaissance support operations to include contamination surveys, agent/material sampling, and assistance with casualty search and extraction.

Recon Company Missions

- **Wartime Mission:** Provide NBC reconnaissance support throughout the area of operations to locate, identify, mark, report NBC contamination, and identify bypass routes around contaminated areas.
- **Additional mission - WMD:** Perform dismounted nuclear, biological and chemical (NBC) recon to support domestic response.
- **Result:** HAZMAT training enhances unit capabilities to detect and operate in and around industrial chemicals and non-standard chemical agents. Greatly improves Combatant Commander support.

Recon Equipment List
Augmentation TDA Only



Decontamination System Major End Items			
QTY	**UI**	**TYPE**	**DESCRIPTION**
1	Ea	CDE	Chem Agent Monitor, Simulator
2	Ea	CDE	ACADA
3	Ea	CDE	ICAM
5	Ea	CDE	AN/UDR 13 Pocket Radiac
2	Ea	CDE	AN/PDR-77 Radiac
2	Ea	CDE	AN/VDR-2 Beta-Gamma Radiac
3	Ea	SP	PPE (CIVIL CHEM/BIO KIT)
1	Ea	SP	Sample Kit ISO 9001
2	Ea	SP	Litter, Mass Casualty, Deconable
2	Ea	SP	Cart, Casualty, Deconable
1	Suit	SP	Level C Outerprotection w/hood
1	Ea	SP	PAPR w/accessories & power
1	Pair	SP	Gloves, CP Rubber (15 mil)
1	Pair	Class	Latex Gloves
1	Ea	SP	Mask, HEPA Filter (Bio use)
1	Ea	SP	Foot cover, 50 mil Chem Resist
1	Ea	SP	Bio Coveralls
1	Ea	SP	HAZMAT Bag, Orange
1	Ea	SP	Safety Vest, Orange w/MILITARY
1	Ea	SP	Hardhat, Orange
1	Pair	CDE	Black Vinyl Overboots
1	Suit	CDE	Battle Dress Overgarment
1	Suit	CDE	Underwear, CPU
1	Ea	CDE	Mask, M40 w/carrier and hood
1	Ea	CDE	Cover, Second Skin
1	Ea	CDE	M7 Amplifier
2	Ea	CDE	Filter Canister, C2A1

CBRN/WMD Incident Response

Army Reserve Civil Support Capabilities

- Emergency Preparedness Liaison Officers (EPLO)
  - ✓ Liaisons for States and Regions
- Regional Readiness Commands
  - ✓ Force Support Capability
  - ✓ Organized along Standard Federal Regions
- Chemical
  - ✓ Decontamination
  - ✓ Reconnaissance
  - ✓ Biological Detection
- Medical
- Aviation
- Information Operations
- Logistics
- Military Police
- Engineer
- Installations
- Signal
- Civil Affairs
- Transportation
- Mortuary Affairs
- Army Reserve facilities

Community Based Throughout the Nation!

le 10 National Asset - state boundaries are not an issu

Army Reserve Medical Assets

- Army Reserve contains large percentage of Army Medical Assets

- Provide facilities for medical treatment

- Train to handle contaminated casualties

- Three Regional Training Sites - Medical
  - + Used to train units and soldiers
  - + Combat Support Hospital and lower
  - + Casualty Decon training capability
  - + WMD casualty treatment training capability

What are COES?

Clinical Operational Equipment Set

COES provides resources (44 Hospital slice) for immediate execution of medical missions in support of contingency oper and Homeland Security.

Provides Intensive Care Medical facility

Army Reserve goal to have 25 COES locations nation wide

Consequence Management
Army Reserve Integrated Response

Reconnaissance and Casualty Extraction
Chemical Companies (Recon

Mass Casualty Decontamination
Chemical Companies (Decon)

Medical Treatment of CBRN Casualties
Combat Support Hospitals
COES

Benefits to DoD

- **Casualty decontamination method training**
  - Soldiers trained to standard in decon operations
  - Can work with civilian first responders
  - Valid in the United States and overseas

- **Hazardous Materials Technician certification for recon soldiers**
  - Credibility with first responders
  - Recruiting and retention ($ for soldiers)
  - Toxic industrial material recon training
    - Valid in the United States and overseas

Consequence Management
How the Army Reserve Helps

- **Annual Training (AT)**
- **Inactive Duty Training (IDT)**
- **Re-Scheduled Training (RST)**
- **Local conferences / training / exercises**
- **VA – DoD sharing – (IDTs @ local VAMCs)**
- **Regional Training Sites (RTS) - Medical**
- **Other?**

Army Reserve Training

Decon Training Plan

- **Field Management of Chemical and Biological Casualties**
  - 2 leaders per Company or Battalion or Brigade Headquarters
  - Medical Research Institute of Chemical Defense (MRICD) at Edgewood, MD
- **Domestic response casualty decon training train the trainer**
  - Program of instruction based on MRICD me
  - 2 trainers per platoon as a minimum (goal
  - Fort Gordon, GA
  - Fort McCoy, WI
- **Team training - Unit trainers train pl**

Recon Training Plan

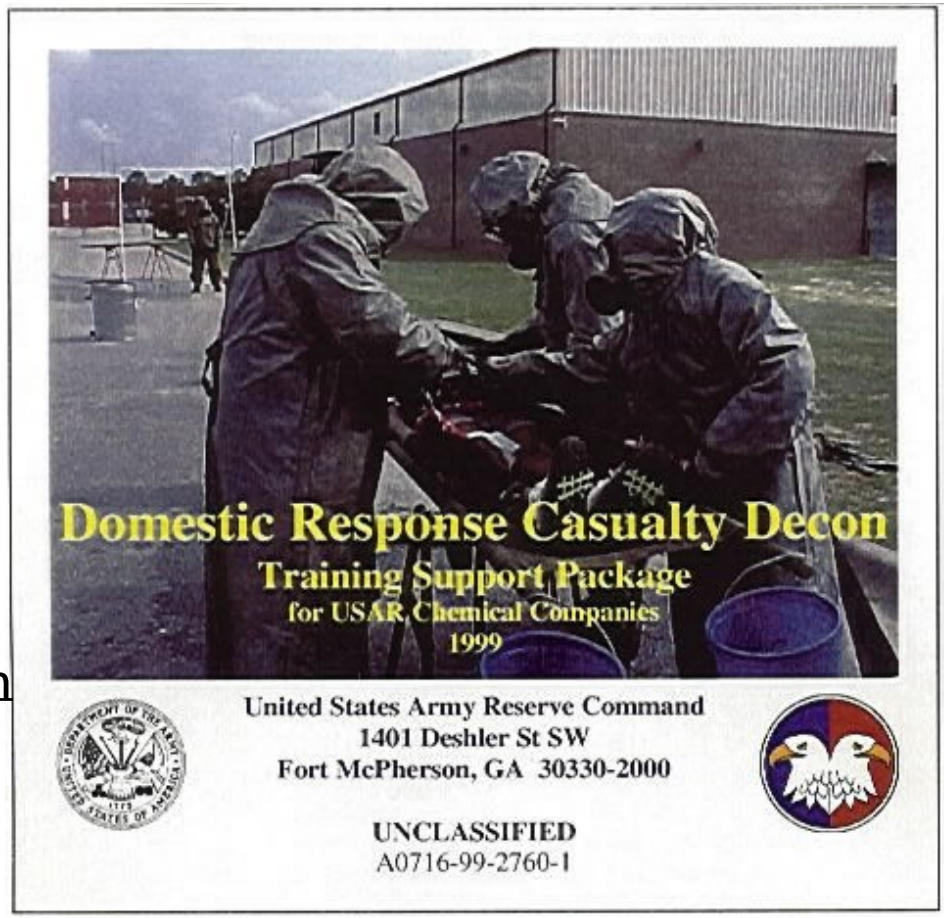
- **Hazardous Material (HAZMAT) technicians training**
  - Pennsylvania State Fire Academy
  - 80-hours
  - IFSAC Approved through Buck County Community College.
- **Covers National Fire Protective Association Standard 472 certification (80 hour)**
  - Dismounted recon in civilian scenario
  - Training is on civilian equipment
  - Live exercise
- **Meets Code of Federal Regulation 1910.120 (q) standards.**

Recon Training Plan (Cont'd)

- **Technical Escort (ASI J5) Training.**
  - Course length 3 weeks, 3 days; 131.5 academic hours.
  - 3 sections:
    - NBC Operations (CAIRA)
    - HAZWOPER – Civilian/Federal Response + Confined Space.
    - Environmental Sampling.
  - FY 03 Army Reserve began filling vacant seats.
  - Intent:
    - Improve skills/expertise.
    - Force pool of J5 qualified soldiers capable of augmenting Tech Escort Unit and the CBRNE Operational Headquarters.

Accomplishments

- **Decon training**
  - 25 Army Reserve Smoke/Decon companies.
  - 350 trainers trained.
  - 44 attended field management of chemical and biological casualties
  - Army Reserve training support compact disc distributed
  - Incident Command System compact disc distributed
- **Recon training**
  - 3 Army Reserve recon companies.
  - Over 290 soldiers trained to date.



Exercise Participation

- Consequence Management Exercises 1999-2003.
- Anniston, Alabama
- Boston, MA
- Minneapolis, MN
- San Francisco, CA (US Coast Guard exercise)
- Huntsville, AL
- Top Officials 2 (TOPOFF 2), Seattle, WA.
- Determined Promise (2003)
  - 2nd MD BDE (TF Med); EPLOs from 63rd RRC.
- Chicago joint training with Chicago Police Department (AUG 03)
- External Evaluation (EXEVAL) Employment Test (FEB-MAR 04)

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